

WHAT IS CLAIMED IS:

1. An apparatus comprising a means for moving a web of material along a substantially horizontal path, a means for applying tension on the web of material as it passes along the substantially horizontal path, a bedplate attached to a frame and positioned in a manner such that the bedplate is below said path and spans across it, and a doctor blade assembly attached to a frame and positioned in a manner such that the doctor blade is above said path, wherein the surface of the bedplate under the doctor blade assembly is recessed.
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2. The apparatus of Claim 1, wherein the means for moving a web of material along a substantially horizontal path is selected from the group consisting of a pre-tenter, a tenter, and a combination of a pre-tenter and a tenter.
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3. The apparatus of Claim 2, wherein the means for applying tension to the web of material comprises pre-tenter pins and/or tenter pins which are present in the pre-tenter and/or the tenter, respectively.
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4. The apparatus of Claim 1, wherein the means for applying tension to the web of material comprises a braking means on a roller over which the web of material must pass prior to moving along the substantially horizontal path above the bedplate.
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5. The apparatus of Claim 1, wherein the web of material comprises a greige good with its face surface facing down as it moves along the substantially horizontal path, above the bedplate, across the recess and under the doctor blade.
6. An apparatus comprising a means for moving a web of material along a substantially horizontal path; a means for applying tension on the web of material as it passes along the substantially horizontal path; a bedplate with a substantially horizontal upper surface, said bedplate being supported by a frame and positioned in a manner such that the bedplate is below said path and spans across it; and a doctor blade assembly attached to a frame and positioned in a manner
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such that the doctor blade is above said path; wherein two bars are attached to the substantially horizontal upper surface of the bedplate in a manner such that the bars transversely span across the bedplate, with the first bar positioned upstream of the doctor blade and the second bar

5 positioned downstream of the doctor blade.

7. The apparatus of Claim 6, wherein the bars are permanently attached to said bedplate.

8. The apparatus of Claim 6, wherein the bars are removably attached to said bedplate.

10 9. The apparatus of Claim 8, wherein the bars are removably attached via countersunk bolts.

10. The apparatus of Claim 9, wherein the counter sunk bolts are located at intervals of from 6 to 24 inches across the length of the bars.

15 11. The apparatus of Claim 6, wherein the means for moving a web of material along a substantially horizontal path is selected from the group consisting of a pre-tenter, a tenter, and a combination of a pre-tenter and a tenter.

12. The apparatus of Claim 6, wherein the means for applying tension to the web of material comprises pre-tenter pins and/or tenter pins which are present in a pre-tenter and/or a tenter, respectively.

13. The apparatus of Claim 6, wherein the means for applying tension to the web of material comprises a braking means on a roller over which the web of material must pass prior to moving along the substantially horizontal path above the bedplate.

25 14. The apparatus of Claim 6, wherein the web of material comprises a greige good .

15. The apparatus of Claim 6, additionally comprising an oven positioned downstream of the doctor blade.

30 16. The apparatus of Claim 15, additionally comprising a means for collecting the web of material after it passes through the oven.

17. The apparatus of Claim 6, wherein the web of material

comprises a greige good with its face surface facing down as it moves along the path, above the bedplate, across the recess, and under the doctor blade.

18. The apparatus of Claim 17, additionally comprising a means
5 for applying a coating composition to the reverse side of the greige good
in a manner which forms a puddle of coating composition upstream of the
doctor blade prior to the greige good passing under the doctor blade.

19. The apparatus of Claim 18, additionally comprising a means
for curing the coating composition applied to the back of the greige good
10 after it has passed under the doctor blade.

20. An apparatus comprising a pre-tenter having pre-tenter pins
along the edge which pass through the edge of the greige good to move
the greige good along a substantially horizontal path; a bedplate attached
to a frame and positioned in a manner such that the bedplate is
15 downstream of the pre-tenter, and below and spanning across the
horizontal path, said bedplate having upper and lower surfaces; a doctor
blade assembly attached to a frame and positioned in a manner such that
the doctor blade assembly is above the horizontal path; wherein the upper
surface of the bedplate is recessed at a point upstream of the doctor blade
20 to a point downstream of the doctor blade; a tenter having tenter pins
along the edge which pass through the edge of the back coated greige
good as it passes along the horizontal path and positioned downstream of
the bedplate and doctor blade; an oven for curing the back coated greige
good; and a collecting device for the cured coated greige good, wherein
25 the pre-tenter pins and tenter pins move the greige good along the
substantially horizontal path at a rate to maintain sufficient tension on the
greige good to keep it taunt as it passes across the recess under the
doctor blade.

21. An apparatus comprising a means for moving a web of
30 material along a substantially horizontal path; a means for applying
tension on the web of material as it passes along the substantially
horizontal path; two adjacent bedplates, each bedplate being supported

by at least one frame and positioned in a manner such that the bedplates are below said path and span across it; and a doctor blade assembly attached to a frame and positioned in a manner such that the doctor blade is above said path, wherein the two adjacent bedplates do not touch each

5 other, with the terminal vertical edge of the first bedplate positioned before the doctor blade and the leading vertical edge of the second bedplate positioned after the doctor blade, thereby forming a recess in the area under the doctor blade.

22. The apparatus of Claim 21, wherein the means for moving
10 the web of material is selected from the group consisting of a pre-tenter, a tenter and a combination of a pre-tenter and a tenter.

23. The apparatus of Claim 21, wherein the means for applying tension to the web of material comprises pre-tenter pins and/or tenter pins which are present in a pre-tenter and/or a tenter, respectively.

15 24. The apparatus of Claim 21, wherein the means for applying tension to the web of material comprises a braking means on a roller over which the web of material must pass prior to moving along the substantially horizontal path above the bedplate.

25. The apparatus of Claim 21, wherein the web of material
20 comprises a greige good with its face surface facing down as it moves along the path above the bedplate and under the doctor blade.

26. The apparatus of Claim 21, additionally comprising an oven positioned downstream of the doctor blade.

27. The apparatus of Claim 26, additionally comprising a means
25 for collecting the web of material after it passes through the oven.

28. The apparatus of Claim 21, additionally comprising a means for applying a coating composition to the back surface of the greige good in a manner to form a puddle of coating composition prior to the greige good passing under the doctor blade.

30 29. The apparatus of Claim 28, additionally comprising a means for curing the coating composition applied to the back of the greige good after it has passed under the doctor blade.

30. A process for the production of a finished carpeting article having a uniform back coating comprising:

- A) moving a greige good face side down along a substantially horizontal path;
- B) applying tension to the greige good as it moves along the path;
- C) applying a puddle of a frothed composition to the reverse side of the greige good through a supply means;
- D) passing the greige good with the puddle over a bedplate and under a doctor blade, wherein the bedplate is positioned below the substantially horizontal path and spans across it, and the doctor blade is attached to a frame and positioned above the substantially horizontal path, and wherein the upper surface of the bedplate is recessed in the area around the doctor blade;
- E) allowing the face fibers of the greige good to fall into the recess in the bedplate;
- F) forming a uniform coating on the back face of the fibers of the greige good;

20 and

- G) collecting the back coated greige good.

31. A process for the production of a finished carpet article having a uniform back coating comprising:

- A) moving a greige good face side down along a substantially horizontal path;
- B) applying tension to the greige good as it moves along the path;
- C) applying a puddle of a frothed composition to the reverse side of the greige good through a supply means;
- D) passing the greige good with the puddle over a bedplate and under a doctor blade, wherein the bedplate is positioned

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below the substantially horizontal path and spans across it, and the doctor blade is attached to a frame and positioned above the substantially horizontal path, and wherein two bars are attached to the substantially horizontal upper surface of the bedplate in a manner that the two bars transversely span across the bedplate, with the first bar positioned upstream of the doctor blade and the second bar positioned downstream of the doctor blade, thereby forming a recess in conjunction with the bedplate in the area around the doctor blade assembly;

- E) allowing the face fibers of the greige good to fall into the recess;
- F) forming a uniform coating on the back face of the fibers of the greige good;

and

G) collecting the back coated greige good.

32. A process for the production of a finished carpet article having a uniform back coating comprising:

- A) moving a greige good face side down along a substantially horizontal path;
- B) applying tension to the greige good as it moves along the path;
- C) applying a puddle of a frothed composition to the reverse side of the greige good through a supply means;
- D) passing the greige good with the puddle over a first bedplate, under a doctor blade assembly, and over a second bedplate, wherein the bedplates are positioned below the substantially horizontal path and span across it, and the doctor blade is attached to a frame and positioned above the substantially horizontal path, and wherein the two bedplates are adjacent to each other but do not contact each other, thereby forming a recess in the area under the doctor blade;

- E) allowing the face fibers of the greige good to fall into the recess;
- F) forming a uniform coating on the back face of the fibers of
5 the greige good;

and

- G) collecting the back coated greige good.